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## **HIGH ACTIVITY CATALYST FOR HIGH MOLECULAR WEIGHT POLYOLEFINS**

### **ABSTRACT OF THE DISCLOSURE**

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By controlling the hold up times and temperatures for mixing the components of aluminum, titanium and magnesium based catalyst for solution polymerization it is possible to prepare a catalyst having a high activity, which prepares high molecular weight polyolefins. Generally, catalyst loses activity and produces lower molecular weight polymer at higher temperatures. The catalyst of the present invention permits comparable polymers to be produced at higher reaction temperatures.